

WHERE IS JACK FROST?

Nobody has Seen Him Since the Blizzard.

HE MAY NEVER COME BACK.

Weather Sharps Say this Winter Mildness is Due to Changed Conditions. Away Out West.

NEW ORLEANS OFFERS TO MAKE ICE FOR US.

Gen. Greeley and Other Signal Service Peopple Say the Gulf Stream has Not Affected the Weather—The Course of Storms Across the Country has Changed—They Now Go North of Us and Fall a Warm Southern Blanket Up Over Us—Sergeant Dunn Says that Artificial Irrigation in the Western Arid Lands May have Created the New Storm Generator which has Upset the Old System—Has the New Order of Things Come to Stay?—The Hottest Winter Ever Known in the South—The Ice Supply Everywhere Almost Exhausted—How Ice is Made Cheaply and Successfully in New Orleans

New York has had no zero weather since February, 1886. The year 1889 averaged warmer than any twelve months for fourteen years. Not since the blizzard of March, 1888, have we had any genuine winter weather, save a sudden dip of the thermometer late in February of last year, when the mercury touched two degrees above zero one night and then rebounded. The absence of snow has been even more noticeable. The sleigh bells were silent all through the season of 1888-89, and nobody has had a legitimate excuse for appearing on runners so far this winter. Rain fell more copiously in 1889 than in any previous year since 1868.

Do these facts signify any permanent change in the climate of New York and the Atlantic coast? It is a common saying among people of middle and advanced age that the severity of average winter weather has much moderated during the past generation. Great snowstorms, they say, were of much more frequent occurrence thirty and forty years ago than they have been during recent winters. The blizzard is the only great storm within popular recollection, and that was really only a local phenomenon, coming out of season and affecting only a limited area around the metropolis. Some people in discussing the mild conditions which have since prevailed during the winter months have argued that the blizzard was a great climatic cataclysm which marked a new era in the meteorological history of this region. Others of more scientific turn of mind have ascribed the change to an inshore shifting of the Gulf Stream, and some of them have notes acute enough to detect even the indescribable flavor in the moist atmosphere which they say the Gulf Stream gives to the air of London. Lastly, the professional weather sharps declare emphatically that the causes of temperature and humidity changes are not local or in any way connected with marine influences, but that they are located away in the foothills of the Rocky Mountains, and—that—startling to contemplate—they may be permanent.

Nobody has a right to argue, say all the scientists, that because a single season or two seasons may be extremely wet or dry, hot or cold, that a permanent climatic change is indicated. Natural forces are slow and sometimes erratic, but after no matter how extreme a digression they almost always come back to one general average. This rule may be relied upon as long as there is no change in conditions. But permanent local changes in climatic conditions sometimes have taken place, and they have been accomplished by artificial means. If a water supply is turned into a desert, nature herself immediately cooperates in maintaining fertility where before was arid sterility. Vegetation induced by artificial means perpetuates itself by providing a natural rainfall where before were barren sands which produced no rain clouds. Such a change in conditions, it is said, is rapidly taking place in the extreme West. A new storm-generating centre has appeared there, and the products of the now weather laboratory have for several months been distributed over the country according to an entirely new system. It may be said in a general way that most New York weather comes from the interior rather than from the ocean. Storms and cold waves in winter come almost invariably from the northwest or southwest via the Mississippi Valley to the Atlantic coast. Formerly these storm centres passed out to sea within about 200 miles of New York. Within a few months they have almost invariably followed a new and extreme northerly course across the Canadian provinces. The effect upon New York has been to draw up over us moist, warm winds from the southwest and south, and to maintain for months a very high average humidity in the atmosphere.

If this new order of things is to continue, what will be the effect upon the health and comfort of the people? The climate that some say is threatened is something much resembling that of London. Now, London weather is something by no means to be desired. We had a typical London December—for, mist, rain, a flurry of snow, mud, rubbers, mackintoshes, and umbrellas for about twenty-five days out of the thirty-one. But London is not an unhealthy town. New York ranks above it, but the difference can be more truthfully ascribed to greater destitution and less efficient sanitary precautions among the London poor than to any superiority in New York's climate. But whether there is any difference or not between the two towns as regards the effect of weather upon health, there will be no question in the minds of those who have tried the climate of both cities as to which has the best air, the most sunshine, and the best general comfort-giving weather.

It is a mistake, as all the doctors say, to hold the weather responsible for the prevailing epidemic of influenza. The distemper raged with equal severity over all Europe, where they are having a very severe winter. It is true that some of the sequels of the influenza have been more serious because of the unusual weather, but the responsibility lies with the sufferers and not with the thermometer. People have not accommodated themselves to the new conditions. In clothing, habits, and general manner of life everybody is trying to make the calendar rules apply to the new conditions. Nobody dares go back to spring and fall clothing for fear a sudden readjustment will restore the usual order of things and bring dire penalties on all who discarded heavy flannels and padded overcoats. So hundreds of overexposed people in the rush of business get overheated, hurry out into a raw, damp wind, and contract colds or something worse. In one sense, then, it is true that the weather must assume part of the responsibility for the increased mortality now laid upon "a gripe."

There are, of course, some compensations for a loss of the invigorating qualities of a sharp-winter atmosphere. Chief of these must be

reduced the improved condition of the noon suffering among them is reduced to a minimum by such weather as we have been having. The domestic consumption of coal is cut down about one-half, and if mild weather should continue a reduction in price of fuel would come sooner or later. The absence of snow in a big city is regretted by few, and it means the saving of millions in the course of a season. The embargo on trade which a big snow storm in a town like New York leaves costs several fortunes, besides the expense of clearing the streets and walks. The coal men and the ice men are most affected by a mild season such as we are now having, and a continuation of present conditions would be a serious thing for them. But it is said that the effect of a material reduction in the ice supply would not be an unmixed evil. America is about the only country in the world that drinks ice water, and a great many doctors declare that it is a national vice. But it will take more than even a sharp advance in cost to make any change in the almost universal custom.

THE GULF STREAM THEORY.

When it comes to an analysis of the causes of Jack Frost's abdication from his winter throne there appears a vast array of specious theories and a very limited supply of trustworthy scientific data. The idea of some of the locally wise that the blizzard marked a turning point in meteorological history may be rejected off hand. The blizzard was a peculiarly violent storm which certain conditions happened to hold poised over New York until it had spent its fury. Such storms, which are limited in area, usually move rapidly along a

Gulf stream theory in explanation of the noon suffering. Sergeant Dunn says that if it was true that the stream had shifted enough to have an appreciable effect the temperature of the flowing tide in the harbor would show the effect of the change. The Gulf Stream has been taken for 17 years, and there has been no recent change from the general average.

THE NEW COURSE OF STORMS.

It is not easy, in the opinion of the signal service experts, to state the immediate cause of the mid weather of the past two winters. The weather charts show that storms now form a more northerly and the northward movement of the center of low pressure in the gulf has been taken for 17 years, and there has been no recent change from the general average.

Sergeant Dunn, who has charge of New England's weather, spread out a map of the country and says, "This isn't a correspondence with the big ice companies." He has no scheme for manufacturing ice, no matter how far it may become necessary to send for the material. They say, "We can't give you facts," said he. "I haven't had the time to look into the matter. I don't know what to do about it. I can tell you that the continued warm weather is caused by a rapid succession of storms moving directly from the south. The storm centre passes over us in a northerly direction we get the benefit of the rush of wind from the south. The wind is white heat, and the ice is cold. Our storm centre has not been taking the southward route this winter. The railroads and the farmers will get the profit instead of the local cutters and dealers.

GEN. GREENLEY'S OPINION.

The High Northern Course of Storms Causes the Warm Weather.

WASHINGTON, Jan. 11.—The remarkably warm winter that has been experienced up to the present time in nearly all parts of the United States has caused inquiries by the bushel to float into the offices of the signal service, the hydrographic and meteorological divisions of the Navy Department, and other places where the phases of the weather are supposed to be intelligently studied; but so far as can be ascertained these bureaus are unable to furnish any satisfactory explanation of the phenomena. It is safe to say that Gen. Greeley, the chief of the signal service, is at a loss to account for the unusual state of things upon any basis of ordinary calculations. That is, he cannot point to any one reason or set of reasons that will explain the matter, although he can show in a thousand different ways what are the local causes that have brought about the very warm December.

It can be stated at the outset that Gen. Greeley denies the proposition that has become so popular of late that the climate of either the Atlantic or Pacific coast is undergoing a permanent or radical change. The much mooted question of the course of the Gulf Stream, he says, has nothing whatever to do with the matter, as the most careful observations and investigations of the scientific bureaus of the Government fail to show that the Gulf Stream is undergoing any unusual change. The only cause that would be apt to drive the Gulf Stream northward is a deficiency of wind.

Lieut. Downey, who is in charge of the local hydrographic office, said that he was satisfied from the reports presented by Captains

of the Gulf Stream near here, that the stream has not shifted its position as far as he can tell for in this town next summer if the driers fail to get in their crop, the local supply of ice will be in short supply. The reports in the signal service here have given in the Gulf Stream the past week. Representatives of the big ice companies, however, have turned the cold shoulder on New York, and have devoted themselves exclusively to our market. They say, "We can't give you facts," said he. "I haven't had the time to look into the matter. I don't know what to do about it. I can tell you that the continued warm weather is caused by a rapid succession of storms moving directly from the south. The storm centre passes over us in a northerly direction we get the benefit of the rush of wind from the south. The wind is white heat, and the ice is cold. Our storm centre has not been taking the southward route this winter. The railroads and the farmers will get the profit instead of the local cutters and dealers.

The opening of the signal service here was applied to day by a number of persons interested in sailing as to the possibility of a cold spell. He said his office knew that no January or February ever passed without a killing frost. Should one occur as usual it will do immense damage to the crops of the country, especially in the fruit crop. The present winter is the mildest in memory in the northern states, and the weather is overmastered with indications of technical phrases.

"I can tell you that the Gulf Stream has not been massed as far north that the weather has been as warm as it is. That has prevented us from having those cold northerly winds. I am not prepared to explain why that high area is so far north, because I have no information on that subject."

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